N-A

	Application No.	Applicant(s)
Notice of Allowability	10/001,737	DAHLBERG ET AL.
	Examiner	Art Unit
	James Arnold, Jr.	1764
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to the amendment filed on 15 December 2003.		
2. The allowed claim(s) is/are <u>1-14.</u>		
3. The drawings filed on 25 October 2001 are accepted by the Examiner.		
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have been received.</li> </ul>		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal	Patent Application (PTO-152)
Notice of Neterences Offed (110 032)     Notice of Draftperson's Patent Drawing Review (PTO-948)		
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No./Mail D	ate
Paper No./Mail Date	<i>,,</i>	
4. Examiner's Comment Regarding Requirement for Deposit	<u>=</u>	nent of Reasons for Allowance
of Biological Material	9.	

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## **DETAILED ACTION**

## Allowable Subject Matter

Claims 1-14 are allowed. The following is an examiner's statement of reasons for allowance: The prior art of record does not disclose a hydroprocessing method of at least two reaction stages comprising the following steps: passing a hydrocarbon feed into a first reaction stage at hydroprocessing conditions where it is contacted with a catalyst in a fixed bed and at least a portion of the feed is converted; combining the resultant effluent with product material from a second reaction stage and passing the combined stream to a separation zone; separating the stream into an unconverted liquid effluent and at least one converted stream comprising products having a boiling point below that of the feed; passing the unconverted liquid effluent to a second reaction stage, said stage comprising a plurality of reaction zones wherein each zone is maintained at hydrocracking conditions and separation occurs between each zone; contacting the feed in the first reaction zone of with a catalyst in a fixed bed; separating the effluent into an unconverted liquid effluent, and a hydrogen-rich converted stream; recycling the hydrogen-rich converted stream to combine with the initial effluent; passing the unconverted liquid effluent to a second reaction zone of the second stage, the zone being maintained at hydrocracking conditions; contacting the feed in the second reaction zone with a catalyst in a fixed bed; and fractionating the effluent to produce gas, naphtha, and one or more middle distillate product streams.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Arnold, Jr. whose telephone number is 571-272-1443. The examiner can normally be reached on Monday-Thursday 8:30 AM-6:00 PM; Fridays from 8:30 AM-5:00 PM with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ja March 5, 2004

Walter D. Griffin Primary Examiner

Walt D. Duff